

**Abstract****Method and bearing arrangement for balancing rotors without journals**

In order to be able to determine the imbalance of rotors (2) with pocket hole bores with great precision in a bearing arrangement with a bearing mandrel (5) for holding a rotor (2), without journals but having a bore (6), in a balancing device, in which the bearing mandrel (5) has orifices (10, 20) for the passage of fluid, a fluid supply to a fluid chamber (40) disposed between the end of the pocket hole bore and the end of the bearing mandrel is provided to form a cushion of fluid with which the rotor is supported in the axial direction.

Fig. 1